## **Amendments to the Claims:**

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

1. (Currently Amended) A position measuring apparatus for surgery comprising:

a position indicating means for indicating a <u>setting</u> position and a <u>setting</u> direction of a surgical tool, said position indicating means comprising a pair of laser beam emitting means for emitting respective laser beams that intersect in <del>a plane-like manner towards a surgical field;</del>

a three-dimensional position measuring means for measuring a position and a direction of said surgical field and also the <u>setting</u> position and the <u>setting</u> direction of said surgical tool; <u>and</u>

means for calculating setting position and direction of said laser emitting means from the emit angle of the laser beam and a laser beam emitting position that is measured by said three-dimensional position measuring means; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant; and

wherein said <u>setting</u> direction for said surgical tool is given in a form of an intersection line.

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## 2. (Cancelled)

- 3. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held on a stand, which is changeable in its position and direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 4. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and a direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 5. (Currently Amended) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is used for indicating a position and a direction of a surgical said surgical tool during a surgical operation.

## 6. – 13. (Cancelled)

14. (New) A position measuring apparatus, as described in the claim 1, wherein said surgical tool including plural line indicia serving as reference lines for parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool, as a guide to effect said setting direction of said surgical tool.

15. (New) A position measuring apparatus for surgery comprising:

a position indicating means for guiding a setting position and a setting orientation of a surgical tool, said position indicating means comprising a pair of laser beam emitting means for emitting respective laser beams that intersect in a surgical field;

a three-dimensional position measuring means for measuring a position and an orientation of said surgical field and also the setting position and the setting orientation of said surgical tool; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant; and

wherein said setting orientation for said surgical tool is given in a form of an intersection line.

16. (New) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is held on a stand, which is changeable in its position and orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.

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- 17. (New) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and an orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 18. (New) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is used for indicating a position and an orientation of said surgical tool during a surgical operation.
- 19. (New) A position measuring apparatus, as described in the claim 15, wherein said surgical tool including plural line indicia serving as reference lines for parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool, as a guide to effect said setting orientation of said surgical tool.
- 20. (New) A position measuring apparatus for surgery comprising:
  a position indicating means for guiding an intersection point as a setting
  position and an intersection line as a setting orientation of a surgical tool, said
  position indicating means comprising a pair of laser beam emitting means for
  emitting respective laser beams that intersect in a surgical field;

a three-dimensional position measuring means for measuring a position and an orientation of said surgical field and also the setting position and the setting orientation of said surgical tool; and

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a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant.

- 21. (New) A position measuring apparatus, as described in the claim 20, wherein said position measuring apparatus is held on a stand, which is changeable in its position and orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 22. (New) A position measuring apparatus, as described in the claim 20, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and an orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 23. (New) A position measuring apparatus, as described in the claim 20, wherein said position measuring apparatus is used for indicating a position and an orientation of said surgical tool during a surgical operation.
- 24. (New) A position measuring apparatus, as described in the claim 20, wherein said surgical tool including plural line indicia serving as reference lines for

parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool, as a guide to effect said setting orientation of said surgical tool.